aiwa

COMPACT DISC STEREO SYSTEM

XH-N3

OPERATING INSTRUCTIONS — En (English)

BEDIENUNGSANLEITUNG — D (Deutsch)

MODE D'EMPLOI — F (Français)

MANUAL DE INSTRUCCIONES — E (Español)

ISTRUZIONI PER L'USO — I (Italiano)

GEBRUIKSAANWIJZING — NL (Nederlands)

NÁVOD K OBSLUZE — C (Cesky)

HASZNÁLATI UTASÍTÁS — M (Magyar)

INSTRUKCJA OBSLUGI — Po (Polski)

R·D·S EON

COMPACT disc DIGITAL AUDIO

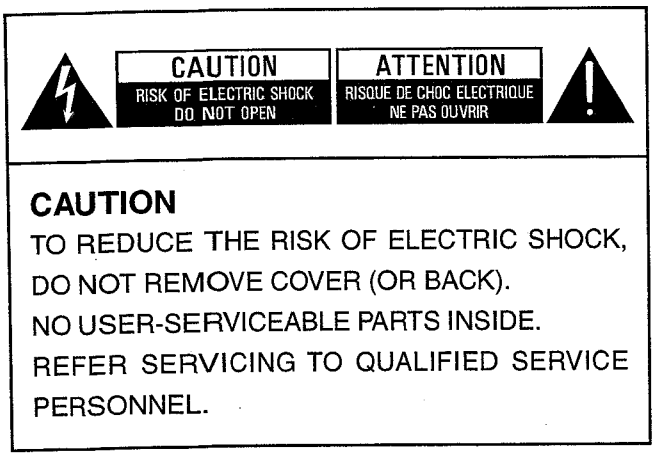
8A-MT4-906-11
000302BKY-Y-M

EZ

ENGLISH

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



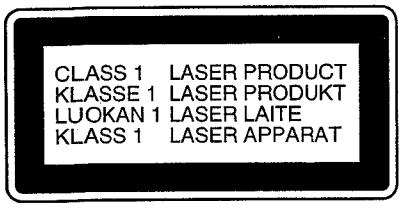
CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This compact disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!

Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

ADVARSEL!
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude al funktion. Undgå udsættelse for stråling.

VAROITUS!
Laitteen käyttäminen muulla kuin tässä käyttöohjeessaa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteiylle.

VARNING!
Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsätta för osnylig laser-strålning, som överskrider gränsen för laserklass 1.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** — Place the unit on a flat, even surface.
4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm clearance from the rear and the top of the unit, and 5 cm from the each side.
   - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
   - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
5 **Objects and liquid entry** — Take care that objects or liquid do not get inside the unit through the ventilation openings.
6 **Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care.
   Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.
7 **Condensation** — Moisture may form on the CD pickup lens when:
   - The unit is moved from a cold spot to a warm spot
   - The heating system has just been turned on
   - The unit is used in a very humid room
   - The unit is cooled by an air conditioner

   When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.

2 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the AC power socket.
- Avoid overloading AC power sockets and extension cords beyond their capacity, as this could result in fire or shock.

3 **When not in use** — Unplug the AC power plug from the AC power socket if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

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En

PRESETTING STATIONS

The unit can store a total of 32 preset stations. Presetting allows you to tune in to a station directly. Stations are assigned preset numbers, beginning from 1 in consecutive order for each band (FM, MW, LW).

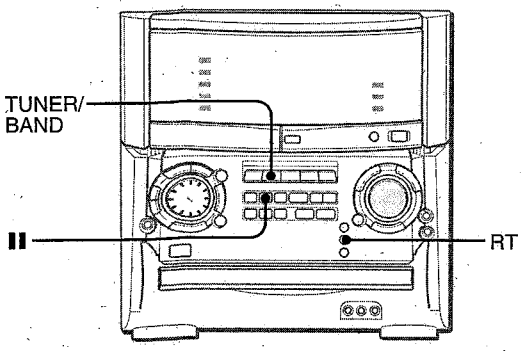
When **TUNER/BAND** is pressed while the power is off, the power is turned on directly (Direct Play Function).

Automatic presetting:
This unit has a function for reception of *1RDS (Radio Data System) and other stations.
If there are more than 32 receivable stations, FM RDS stations take priority over other FM stations.

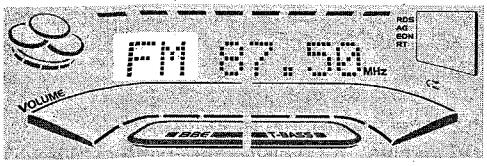
Manual presetting:
You can select stations to be preset from all the bands.

AUTOMATIC PRESETTING

The tuner scans through the receivable frequency range and stores stations automatically.

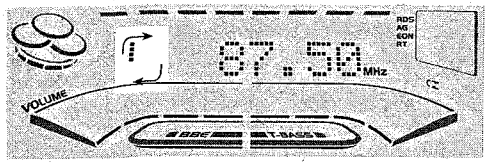


1 Press TUNER/BAND.
"FM" is displayed.



2 Keep RT pressed for 4 seconds until AUTO PRESET is displayed.

3 Press II SET within 4 seconds.
The tuner searches for a station, beginning with the FM band. When a tuned station is stored, the selected preset number flashes on the display.

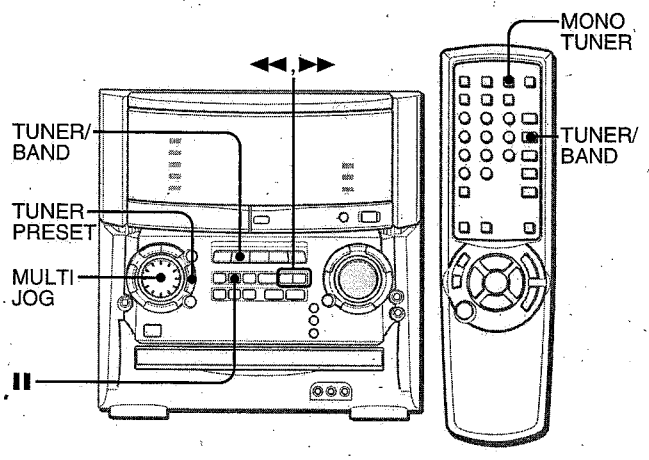


The search continues on the MW and LW bands if preset numbers are still available.
When automatic presetting has been completed, the display returns to the first preset station.

When the tuner detects *2identical RDS stations with alternative frequencies
Only the station with the stronger signal is stored.
Before storing an RDS station, the tuner checks first whether the same stations on the other frequencies are present, and stores the station with the best reception.

NOTE
When automatic presetting is done, all previously stored stations are cleared.

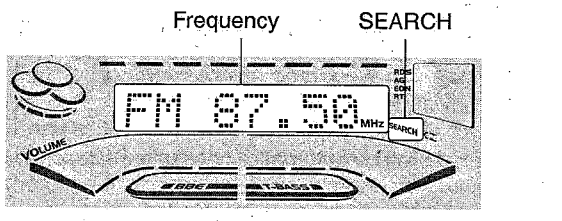
MANUAL PRESETTING



1 Press TUNER/BAND repeatedly to select the band.

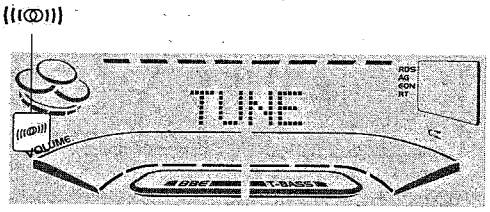
→ FM → MW → LW →

2 Press TUNER PRESET repeatedly to select the manual tuning mode.
Each time the button is pressed, the following three tuning modes are selected cyclically.
① **Preset tuning mode:** The preset number is displayed.
② **Auto search mode:** The frequency and "SEARCH" are displayed.
③ **Manual tuning mode:** The frequency is displayed but "SEARCH" is not displayed.



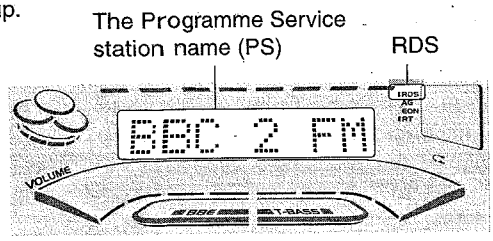
NOTE
The preset tuning mode is skipped if no station is preset.

3 Turn MULTI JOG clockwise or anti-clockwise to tune in to a station.
The frequency changes as you turn the dial. When a station is received, "TUNE" is displayed for 2 seconds.
During FM stereo reception, ((◎)) is displayed.

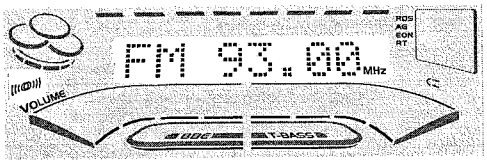


• **◀◀DOWN** and **▶▶UP** are also available to tune in to a station.

ⓐ When tuning in to an FM RDS station
After TUNE on the display goes out, the Programme Service station name (*3PS) is displayed and RDS lights up.



ⓑ When tuning in to the other stations
After TUNE on the display goes out, the band is displayed.



• During FM stereo reception, ((◎)) lights.

4 Press ❚❚SET to store the station.
The selected preset number flashes.

5 Repeat steps 1 to 4 to store the stations.
The next station will not be stored if a total of 32 preset stations for all the bands has already been stored.

NOTE

"FULL" is displayed if you attempt to store more than 32 preset stations.

*1 **RDS**
Today many stations transmit so-called RDS (Radio Data System) codes that contain a variety of additional information along with regular sound signals.

*2 **Identical RDS stations with alternative frequencies (AF)**
This is a list of alternative frequencies that give information on the various transmitters broadcasting the same programme in the same reception area. It enables receivers equipped with memory to store the list, and thus reduce the time needed for switching to another transmitter.

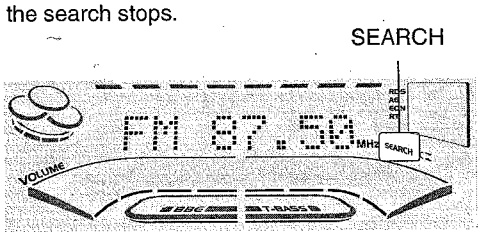
*3 **Programme service station name (PS)**
This is a name consisting of not more than 8 alphanumeric characters, which is displayed in order to inform listeners of programme services being broadcast by the radio station.
Example: BBC 1

Characters which can be displayed

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9 < > ? " ' * @ – + / = [ ]

If a character transmitted by the broadcast is not applicable to receivers, a blank space is inserted.

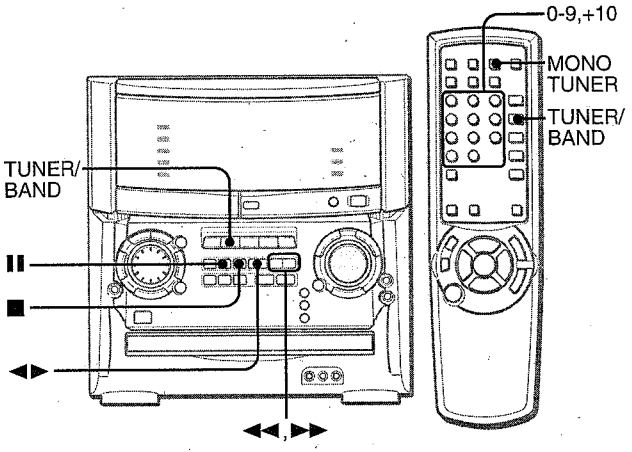
To search for a station quickly (Auto Search)
Press **TUNER PRESET** repeatedly to display "SEARCH" (auto search mode), and turn **MULTI JOG** clockwise or anti-clockwise until the frequency starts to change rapidly. After tuning in to a station, the search stops.



To stop the Auto Search manually, turn **MULTI JOG** a little in either direction.

- The Auto Search may not stop at the stations with very weak signals.
- **◀◀DOWN** and **▶▶UP** are also available to search for a station. Keep **◀◀DOWN** or **▶▶UP** pressed until the tuner starts searching. Press the button to stop the search manually.

RECEPTION BY PRESET NUMBER



1 Press TUNER/BAND to select a band.

2 Press ◀▶PRESET repeatedly.
Each time the button is pressed, the next highest number is selected.

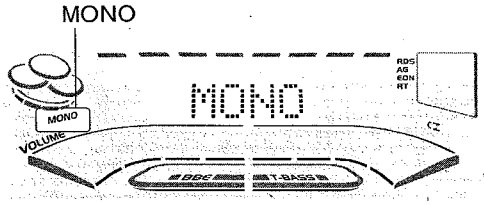
Selecting a preset number on the remote control
Press **TUNER/BAND** to select a band. Then, press the numbered buttons to select a preset number.
Example:
To select preset number 20, press **+10**, **+10** and **0**.
To select preset number 15, press **+10** and **5** .

To clear a preset station
Select the preset number of the station to be cleared. Then, press **■CLEAR**, and press **❚❚SET** within 4 seconds.
The preset numbers of all stations in the band with higher numbers are decreased by one.

To tune in to a station which is not preset
Press **TUNER/BAND** to select a band, and press **◀◀DOWN** or **▶▶UP** to select the station.

To play a tuned station when the power is off (Direct Play Function)
Press **TUNER/BAND**. The power is turned on and the tuned station is played.

When an FM stereo broadcast contains noise
Press **MONO TUNER** on the remote control so that "MONO" appears on the display.
Noise is reduced, although reception is monaural.

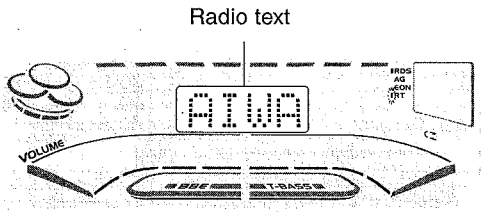


To restore stereo reception, press **MONO TUNER** on the remote control so that "STEREO" appears.

NOTE

RDS functions may not work correctly if the RDS transmission data from the station contains too much interference or the reception signal is too weak.

To display radio text (*4RT) during RDS reception
When the tuned station is transmitting RT codes, text appears on the display when **RT** is pressed.
If the tuned station is not transmitting RT codes, "NO RT" is displayed when **RT** is pressed.



To return to the normal display, press **RT** again.

***4 Radiotext (RT)**
Information such as the cast list of a play or the title of a song is shown on the display.

***5 Programme type identification (PTY)**
PTY allows selection of listening by one of 30 or more programme types rather than by a station.

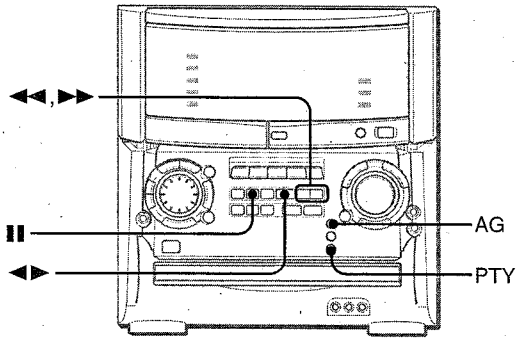
***6 Enhanced other networks information (EON)**
EON information gives the receiver a cross reference to other stations and allows the receiver to switch from the currently tuned station to another RDS station.

***7 Traffic programme identification (TP)**
This is a code which informs the receiver that a tuned station regularly broadcasts traffic information.

***8 Clock-time (CT)**
CT function provides an accurate clock signal which is self adjusting to time zones and seasonal time changes.

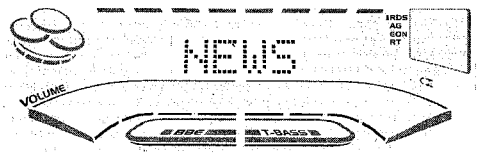
SEARCHING WITH THE HELP OF RDS CODES

Each RDS station identifies the type of programme (*5PTY) which it is currently broadcasting. If you specify a PTY, the unit can automatically detect a suitable station from the preset stations. In addition, the *6EON (Enhanced Other Networks) service works in some areas, so that searching is much faster.



TO DISPLAY THE PTY

Press PTY once during RDS reception.



Programmes are classified as follows:

TRAFFIC, NEWS, AFFAIRS (current affairs), INFO (information), SPORT, EDUCATE (education), DRAMA, CULTURE, SCIENCE, VARIED, POP M (pop music), ROCK M (rock music), EASY M (middle of the road music), LIGHT M (light classical), CLASSICS (serious classical), OTHER M (other music), WEATHER, FINANCE, CHILDREN (children's programmes), SOCIAL (social affairs), RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (national music), OLDIES, FOLK M (folk music), DOCUMENT, TEST (alarm test), ALARM

NOTE

- If programme type information is not being transmitted, "NO PTY" is displayed.
- If undefined programme type information is being transmitted, "UNDEFINE" is displayed.
- The unit identifies TRAFFIC with one of the programme types.

TO SEARCH FOR A SPECIFIED PTY

1 Press PTY.
The programme type of the currently tuned station is displayed.

2 Within 4 seconds, press ◄◄ or ►► to select a programme type.

3 Within 4 seconds, press PTY again.
The search automatically checks every preset station. After identifying a suitable station, the station will be selected.

EON service for the PTY search
When EON service works to transmit PTY, a suitable station is detected without checking every preset station. When a station transmits EON information, it takes about 15 to 30 seconds for the unit to decode the EON information. After decoding the information, EON lights up on the display.

When a station is not found
"NOT FOUND" is displayed and the unit returns to the previous station.

When the TRAFFIC programme type is selected
The unit searches for a station transmitting a TP code. However, the tuned station may not be broadcasting a traffic announcement currenly. Wait for a while. The tuned station broadcasts traffic information regularly and a traffic announcement will be made.

EON SEARCH

During FM RDS reception, the unit switches to radio programmes with the specified PTY automatically as soon as they begin.

1 Press PTY.
The programme type of the currently tuned station is displayed.

2 Within 4 seconds, press ◄◄ or ►► to select a programme type.

3 Within 4 seconds, press ❚❚SET.
"EON ON" is displayed for 3 seconds. Then "EON" starts flashing and the unit enters EON search standby mode.
When a radio programme with the specified PTY from another radio station begins, it interrupts the currently playing radio programme and the radio programme with the specified PTY is heard. At this time, "EON" flashs rapidly. At the end of the radio programme with the specified PTY, the previous FM radio station is restored.
- EON search standby mode is stored until it is cancelled even if the power is turned off.

To restore the previous FM station during reception of the radio programme with the specified PTY
Press ◄►. At this time, EON search standby mode is cancelled.

To cancel EON search standby mode
Keep **PTY** pressed. (Do not release **PTY** yet.) "EON PTY" and the specified PTY are displayed alternately. At this time, press **❚❚SET** while pressing **PTY**. "EON OFF" is displayed and EON search standby mode is cancelled.

NOTE
The EON search function does not work when:
- FM stations are not preset.
- the signals of stations with the specified PTY are weak.
- FM RDS is not received.

OTHER FUNCTION OF RDS CODES

Auto GEQ function
The equalization curve is switched automatically to match the music programme type of an RDS station.

Press AG.
"AG" lights up.
To cancel, press it again.

GEQ matching PTY:

PTY	GEQ
POP M	POP
ROCK M	ROCK
LIGHT M	JAZZ
CLASSICS	CLASSICS
JAZZ	JAZZ
COUNTRY	POP
NATION M	POP
OLDIES	POP
FOLK M	JAZZ
Others	off

The selected GEQ can be changed to suit your preference by pressing **GEQ** on the remote control. During this time, the Auto GEQ function is cancelled.

Clock-time (CT)
The CT function provides the unit with information about the local time. The CT function works whenever a CT station is received.

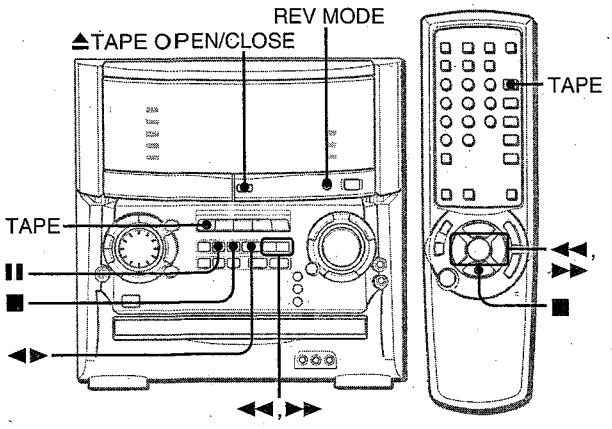
If you have not set the clock (the clock flashes on the display)
The current time can be set automatically by tuning in to an RDS station.
If no RDS station is preset, tune in to an RDS station manually by pressing ◄◄ or ►►.

If the clock does not agree with the broadcast time
An RDS signal will update the clock time on the hour every hour.

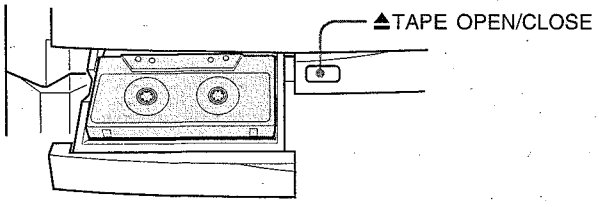
To change the MW tuning interval
The default setting of the MW tuning interval is 9 kHz/step. If you use this unit in an area where the frequency allocation system is 10 kHz/step, change the tuning interval.
Press **POWER** while pressing **TUNER/BAND** on the main unit.
To reset the interval, repeat this procedure.

NOTE
When the MW tuning interval is changed, all preset stations are cleared. The preset stations have to be set again.

BASIC OPERATIONS



1 Press TAPE and press ≜TAPE OPEN/CLOSE to open the cassette tray.

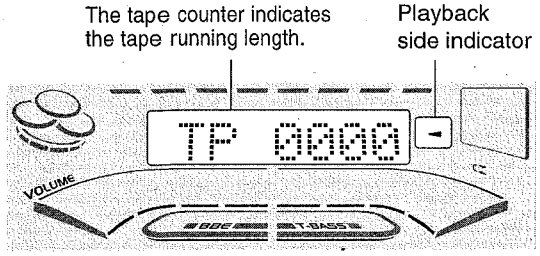


Load a tape with the exposed side facing the unit, and the side to be played back facing upward.

2 Press ≜TAPE OPEN/CLOSE to close the cassette tray.

3 Press ◄► to start play.

To play the opposite side of the tape, press ◄► again.



◄: The side facing upward is being played (forward).
►: The opposite side is being played (reverse).

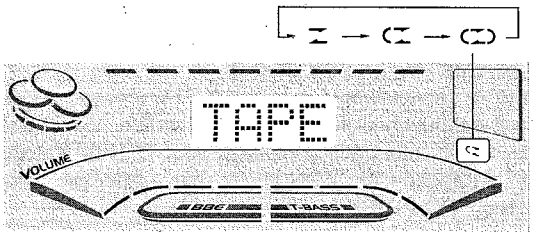
To stop play, press ■.
To pause play, press II. To resume play, press again.
To fast forward or rewind, press ◄◄ or ►►. Then press ■ to stop the tape.

Types of tape

Use Type I (normal) or Type II (high/CrO_2) tapes for playback.

To select a reverse mode

Each time **REV MODE** is pressed, the reverse mode changes.



To play one side only, select ⇉.
To play from the side facing upward to the opposite side once only, select ⇉ .
To play both sides repeatedly, select ⇉.

To start play when the power is off (Direct Play Function)

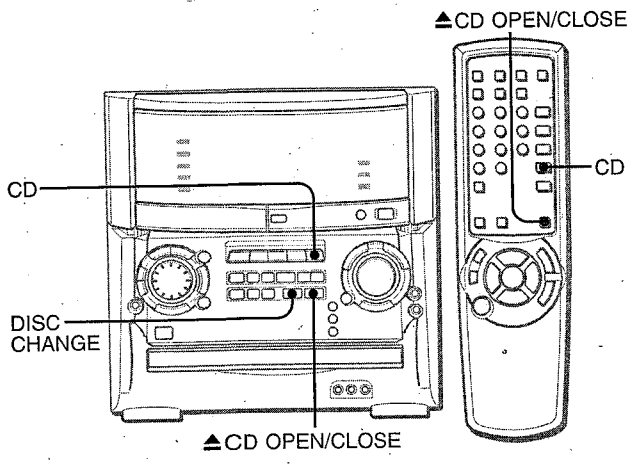
When a tape is loaded, press **TAPE**. The power is turned on and playback begins.
When **≜TAPE OPEN/CLOSE** is pressed, the power is also turned on.

To set the tape counter to "0000"

Press **■CLEAR** in stop mode.
The counter is also set to "0000" when the cassette tray is opened.

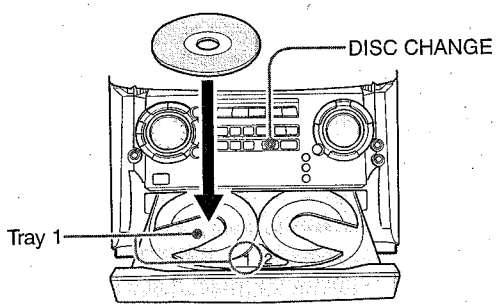
BASIC OPERATIONS

LOADING DISCS



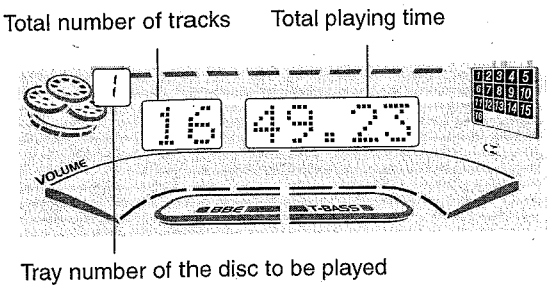
Press CD, then press ≜CD OPEN/CLOSE to open the disc compartment. Load disc(s) with the label side up.

To load one or two discs, place the discs on tray 1 and tray 2.

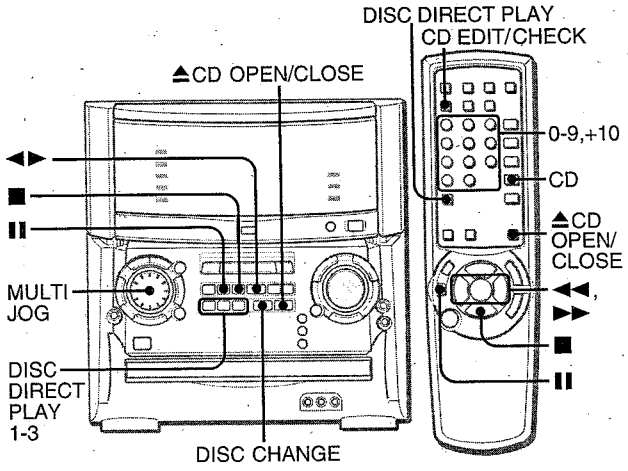


To load three discs, press **DISC CHANGE** to rotate the trays after placing two discs. Place the third disc on tray 3.

After placing the discs, press **≜CD OPEN/CLOSE** to close the disc compartment.
The display shows the information of the disc to be played.

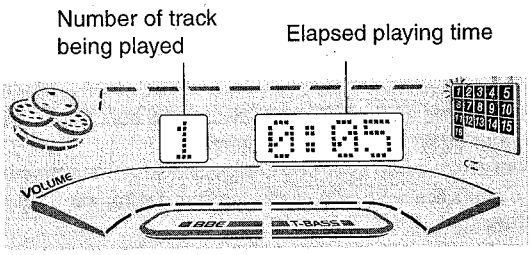


PLAYING DISCS

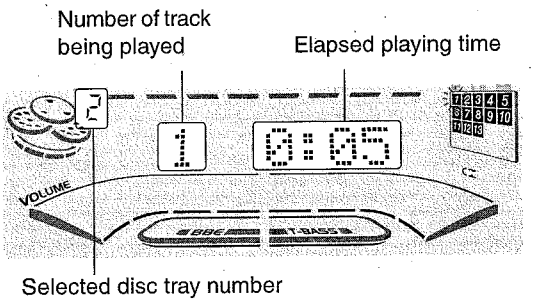


Load discs.

To play all discs in the disc compartment (continuous play), press ◄►.
Play begins with the disc on tray 1.
The indicator of **DISC DIRECT PLAY** flashes to indicate the disc being played.



To play one disc only (single disc play), press one of DISC DIRECT PLAY 1-3.
The disc with the selected tray number is played once.
Only the indicator of the selected **DISC DIRECT PLAY** flashes.



To play with the remote control
Press **DISC DIRECT PLAY**, then press one of the numbered buttons **1-3** within 3 seconds to select a disc.

To stop play, press ■.
To pause play, press ❚❚. To resume play, press again.
To search for a particular point during playback, keep ◄◄ or ►► pressed and release the button at the desired point.
To skip to the beginning of a track during playback, turn **MULTI JOG** or press ◄◄ or ►► repeatedly.
To remove discs, press **≜CD OPEN/CLOSE**.
You can only remove the two discs that face you. When the disc(s) to be removed does(do) not face you, press **DISC CHANGE** repeatedly.

To start play when the power is off (Direct Play Function)
Press **CD**. The power turns on and play of the loaded disc(s) begins.
When ▲ **CD OPEN/CLOSE** is pressed, the power is also turned on and the disc compartment is opened.

To check the remaining time
Press **CD EDIT/CHECK** on the remote control during play (except random play or programmed play). The amount of time remaining until all tracks finish playing is displayed. To restore the playing time display, press **CD EDIT/CHECK**.

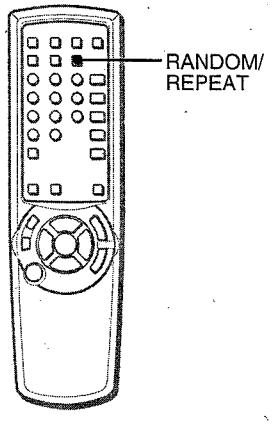
Selecting a track with the remote control
1 Press **DISC DIRECT PLAY**, then press one of the numbered buttons **1-3** within 3 seconds to select a disc.
2 Press the numbered buttons **0-9** and **+10** to select a track.
Example:
To select the 25th track, press **+10**, **+10** and **5**.
To select the 10th track, press **+10** and **0**.
The selected track starts to play and play continues to the end of that disc.

Replacing discs during play
While one disc is playing, the other discs can be replaced without interrupting play.
1 Press **DISC CHANGE**.
2 Remove the discs and replace with other discs.
3 Press ▲**CD OPEN/CLOSE** to close the disc compartment.

NOTE

- When loading an 8-cm (3-inch) disc, make sure to place it onto the inner circle of the tray precisely.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- Do not use irregular shape CDs (*example:* heart-shaped, octagonal ones). It may result in malfunctions.
- The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
- Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.

RANDOM/REPEAT PLAY



Use the remote control.

RANDOM PLAY
All the tracks on the selected disc or all the discs can be played randomly.

REPEAT PLAY
A single disc or all the discs can be played repeatedly.

Press RANDOM/REPEAT.
Each time it is pressed, the function can be selected cyclically.
RANDOM play — RANDOM lights up on the display.
REPEAT play — ↻ lights up on the display.
RANDOM/REPEAT play — RANDOM and ↻ light up on the display.
Cancel —RANDOM and ↻ disappear from the display.

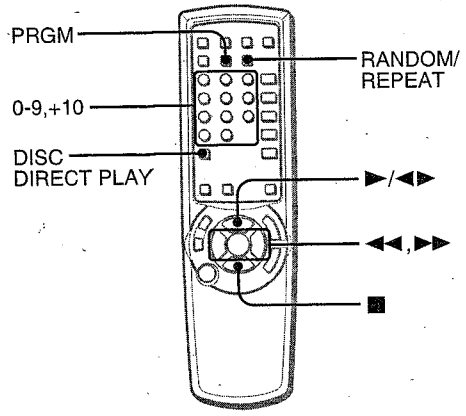
To play all discs, press ◄► to start play.
To play a single disc, press **DISC DIRECT PLAY**, then press one of the numbered buttons **1-3** within 3 seconds to start play.

NOTE

- During random play, it is not possible to skip to the previously played track with ◄◄ or **MULTI JOG**.
- Random play is canceled when the numbered button is pressed to select a track.

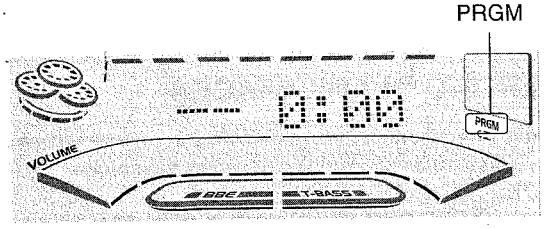
PROGRAMMED PLAY

Up to 30 tracks can be programmed from any of the inserted discs.



Use the remote control.

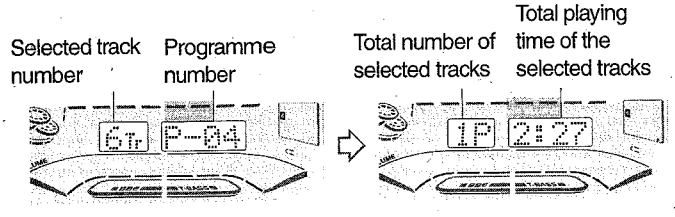
1 Press PRGM twice in stop mode.
"– –" and "PRGM" appear on the display.



- When **PRGM** is pressed once in step 1, the unit enters the CD KARAOKE PROGRAM (page 24).

2 Press DISC DIRECT PLAY, then press one of the numbered buttons 1-3 within 3 seconds to select a disc.
Go to the next step when the tray stops rotating.

3 Press the numbered buttons 0-9 and +10 to programme a track.
Example:
To select the 25th track, press **+10**, **+10** and **5**.
To select the 10th track, press **+10** and **0**.



4 Repeat steps 2 and 3 to programme other tracks.

5 Press ◄► to start play.

To check the programme
Each time ◄◄ or ►► is pressed in stop mode, a disc number, track number, and programme number will be displayed.

To clear the programme
Press ■**CLEAR** in stop mode.

To add tracks to the programme
Repeat steps 2 and 3 in stop mode. The track will be programmed after the last programmed track.

To change the programmed tracks
Clear the programme and repeat all the steps again.

To play the programmed tracks repeatedly
After programming the tracks, press **RANDOM/REPEAT** once so that ↻ appears on the display.

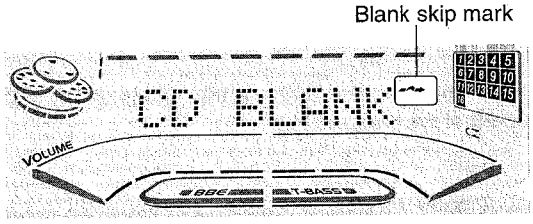
NOTE

- During programmed play, you can not use random play or check the remaining time.
- During programmed play, you can not select a track. "Can't USE" is displayed if you attempt to select a track.
- "FULL" is displayed if you attempt to programme more than 30 tracks.

BLANK SKIP PLAY

The silent portions between tracks recorded on a CD can be skipped during playback.

1 Press CD BLANK SKIP on the main unit.
"CD BLANK SKIP ON" is displayed and a blank skip mark will appear in the display.



2 Press ◄► to start playback.
The silent portions between tracks will be skipped, and the sound will be played back without interruption. If a track fades out (ends with the sound gradually decreasing), the fadeout portion will also be skipped.

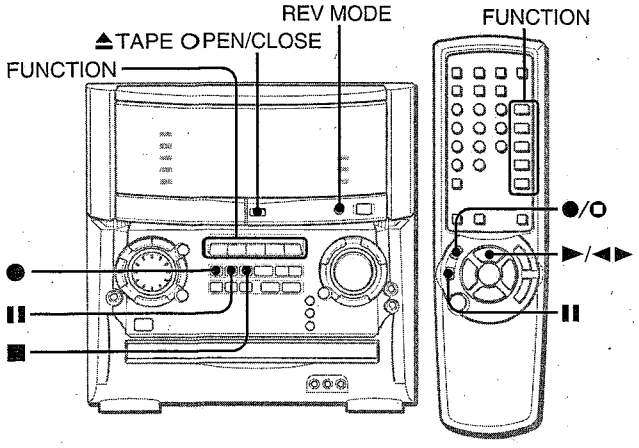
To return to normal playback
Press **CD BLANK SKIP** again. "CD BLANK SKIP OFF" is displayed and the blank skip mark in the display will disappear.

NOTE

- There may be cases where BLANK SKIP PLAY does not function correctly.
- BLANK SKIP PLAY is automatically canceled when performing AI EDIT RECORDING (page 21), PROGRAMMED EDIT RECORDING (page 22), or recording during PROGRAMMED PLAY (left column) or RANDOM PLAY (page 18).

BASIC RECORDING

This section explains how to record from the tuner, CD player, or external equipment.

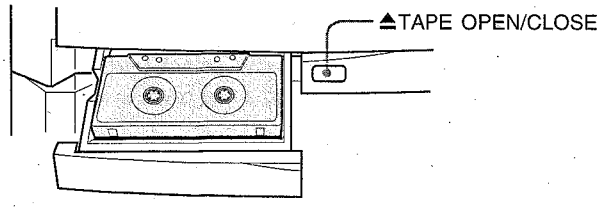


Preparation

- Set the tape to the point where recording will start.
- Use Type I (normal) and Type II (high/CrO_2) tapes for recording.

1 Load a tape to be recorded.

Load the tape with the exposed side facing the unit, and the side to be recorded facing upward.



To open or close the cassette tray, press **▲TAPE OPEN/CLOSE** of the cassette tray.

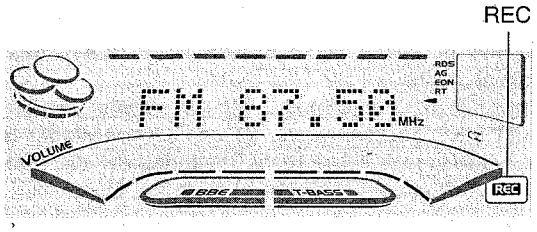
2 Press REV MODE to select the reverse mode.

To record on one side only, select ⇉.
To record on both sides, select (⇉ or (⇄).

3 Press one of the function buttons and prepare the source to be recorded.

To record from a CD, press **CD** and load the disc(s).
To record from a radio broadcast, press **TUNER/BAND** and tune in to a station.
To record from the connected source, press **VIDEO1/2/3** or **AUX/PHONO** and play.

4 Press ●REC/REC MUTE to start recording.



When the selected function is CD, playback and recording start simultaneously.

To stop recording, press ■.
To pause recording, press II. (Applicable when the recording source is TUNER, VIDEO1/2/3 or an external equipment connected to **AUDIO IN** jacks on the rear or the front.)
To resume recording, press again.

To start recording with the remote control
First press **●/O REC/REC MUTE**, and then press ◄► within 2 seconds.

NOTE

"Can't REC" is displayed if you attempt to record on a tape with the plastic tabs brocken off.

SOUND ADJUSTMENT DURING RECORDING

The output volume and tone (except BBE and MIC) of the speakers or headphones are freely varied without affecting the recording.

NOTE

If squealing or beating sounds occur when recording MW or LW broadcast, press **MONO TUNER** on the remote control to select "BEAT 1" or "BEAT 2", so as to eliminate the noise. When "BEAT 1" is selected, the dot light is turned on in the display window.

INSERTING BLANK SPACES

Insertion of 4-second blank spaces enables you to activate the Music Sensor function. (Applicable when the source is TUNER, VIDEO1/2/3 or AUX/PHONO.)

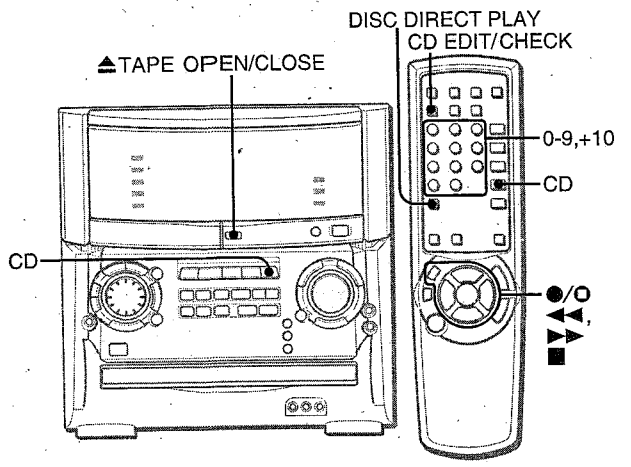
1 **Press ●REC/REC MUTE during recording or while in recording pause mode.**
"REC" on the display flashes for 4 seconds and a 4-second blank space is made. Then, the deck enters the recording pause mode.
2 **Press II to resume recording.**

To insert a blank space of less than 4 seconds, press **●REC/REC MUTE** again while "REC" is flashing.
To insert blank spaces of more than 4 seconds, after the deck enters recording pause mode, press **●REC/REC MUTE** again. Each time the button is pressed, a 4-second blank space is added.

To erase a recording

Make sure the microphone is not connected to the unit.
Set the microphone volume to OFF (page 23).
1 Press **TAPE** and load the tape to be erased.
2 Set the tape to the point where the erasure is to be started.
3 Set the reverse mode by pressing **REV MODE**.
4 Press **●REC/REC MUTE** to start the erasure.

AI EDIT RECORDING



The AI edit recording function enables CD recording without worrying about tape length and track length. When a CD is inserted, the unit automatically calculates the total track lengths. If necessary, the order of tracks is rearranged so that no track is cut short.
(AI: Artificial Intelligence)

NOTE

The AI edit recording will not start from a point halfway through the tape. The tape must be recorded from the beginning of either side.

Use the remote control from steps 3 to 6.

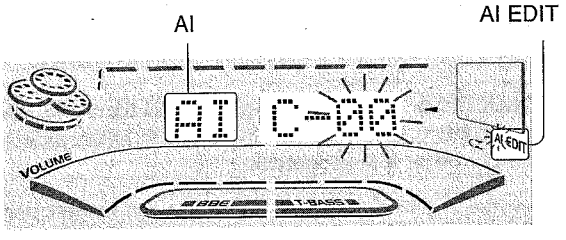
1 Load the tape into the cassette tray.

Load the tape with the side to be recorded on first facing upward.

2 Press CD and load the disc(s).

3 Press CD EDIT/CHECK once.

"AI EDIT" and "AI" light up on the display.



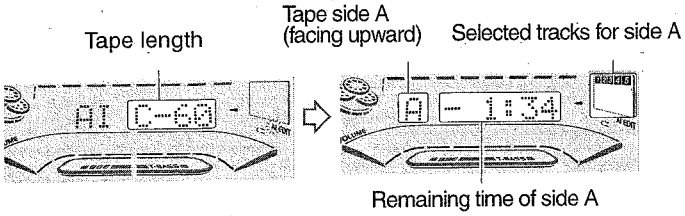
When "PRGM" is selected, press **CD EDIT/CHECK** again.

4 Press DISC DIRECT PLAY, then press one of the numbered buttons 1-3 within 3 seconds to select a disc.

5 Press the numbered buttons 0-9 to designate the tape length.

10 to 99 minutes can be specified.
Example: When using a 60-minute tape, press **6** and **0**.
In a few seconds, the tracks to be recorded on each side of the tape are determined.

- ◄◄ , ►► and **MULTI JOG** are also available to designate the tape length.



6 Press ●/O REC/REC MUTE, and then press ►/◄► within 2 seconds to start recording.

The tape is rewound to the beginning of the side facing upward, the lead segment is played through for 10 seconds, and recording starts. When recording on the side facing upward (side A) ends, recording on the other side (side B) starts.

To stop recording

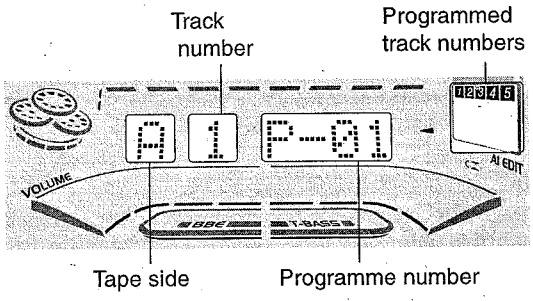
Press ■. Recording and CD play stop simultaneously.

To clear the edit programme

Press ■CLEAR twice so that "EDIT" disappears from the display.

To check the order of the edit programme

Before recording, press **CD EDIT/CHECK** to select side A or B, and press ◄◄ or ►► repeatedly.



To add tracks from other discs to the edit programme

If there is any time remaining on the tape after step 5, you can add tracks from other discs in the CD compartment.

1. Press **CD EDIT/CHECK** to select side A or B.
2. Press **DISC DIRECT PLAY**, then press one of the numbered buttons **1-3** within 3 seconds to select a disc.
3. Press the numbered buttons **0-9** and **+10** to select tracks.
   A track whose playing time is longer than the remaining time cannot be programmed.
4. Repeat steps 2 and 3 to add more tracks.
5. Start recording.
   "AI" lights off and "PRGM" lights up.

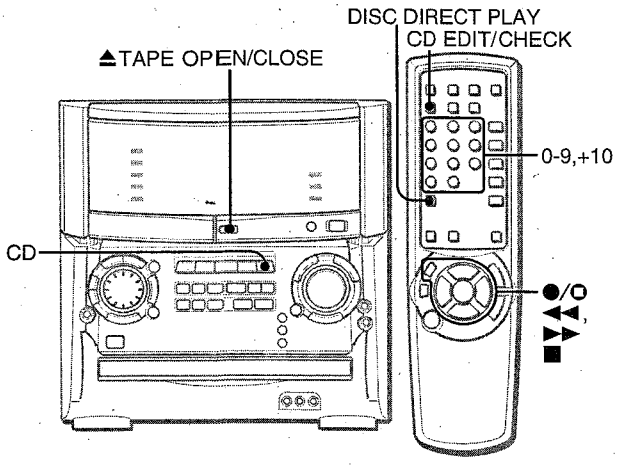
Time on cassette tapes and editing time

The actual cassette recording time is usually a little longer than the specified recording time printed on the label. This unit can programme tracks to use the extra time. When the total recording time is a little longer than the tape's specified recording time after editing, the display shows the extra time (without a minus mark), instead of the time remaining on the tape (with the minus mark).

NOTE

- Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
- The AI edit function cannot be used with discs containing 31 tracks or more. "TR OVER" is displayed if this is attempted.

PROGRAMMED EDIT RECORDING



In the programmed edit recording function, the tracks can be programmed while checking the remaining time on each side of the tape as the tracks are programmed.

NOTE

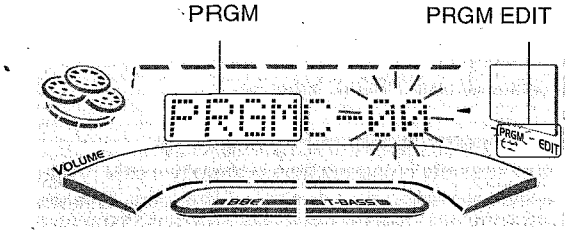
The programmed edit recording will not start from a point halfway through the tape. The tape must be recorded on from the beginning of either side.

Use the remote control from steps 3 to 8.

1 **Load the tape into the cassette tray.**
Load the tape with the side to be recorded on first facing upward.

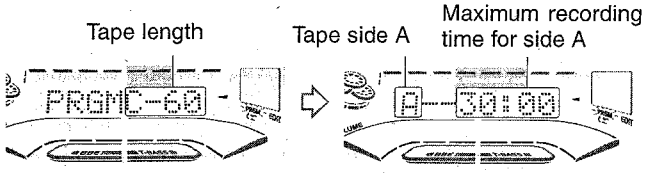
2 **Press CD and load the disc(s).**

3 **Press CD EDIT/CHECK twice.**
"PRGM EDIT" and "PRGM" light up on the display.



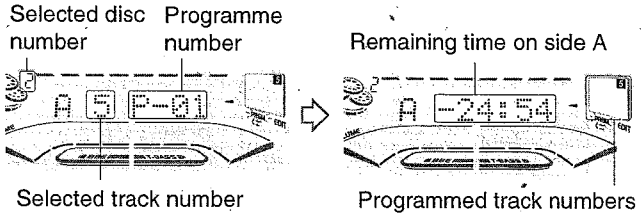
When "AI" is selected, press **CD EDIT/CHECK** again.

4 **Press the numbered buttons 0-9 to designate the tape length.**
10 to 99 minutes can be specified.



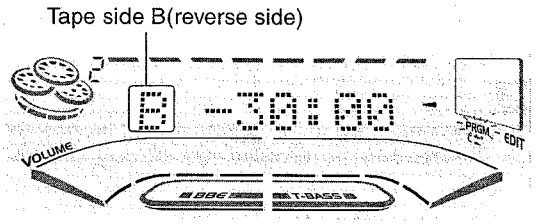
- ◄◄ , ►► and **MULTI JOG** are also available to designate the tape length.

5 **Press DISC DIRECT PLAY, then press one of the numbered buttons 1-3 within 3 seconds to select a disc. Then, press the numbered buttons 0-9 and +10 to programme a track.**
Example: To select the 10th track of disc 2, press **DISC DIRECT PLAY** and **2**, then **+10** and **0**.



6 **Repeat step 5 for the rest of the tracks for side A.**
A track whose playing time is longer than the remaining time cannot be programmed.

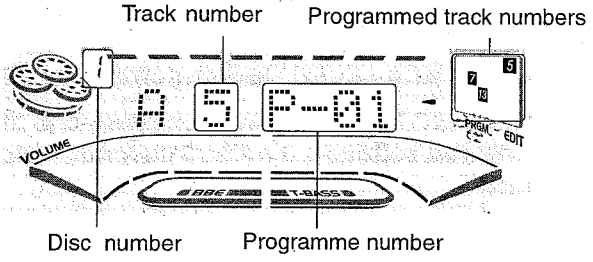
7 **Press CD EDIT/CHECK to select side B and program the tracks for side B.**
After confirming B on the display, repeat step 5.



8 **Press ●/O REC/REC MUTE, and then press ►/◄► within 2 seconds to start recording.**
The tape is rewound to the beginning of the side facing upward, the lead segment is played through for 10 seconds, and recording starts. When recording on the side A facing upward ends, recording on the other side B starts.

To stop recording
Press ■. Recording and CD play stop simultaneously.

To check the order of the programmed track numbers
Before recording, press **CD EDIT/CHECK** to select side A or B, and press ◄◄ or ►► repeatedly.



To change the programme of each side
Press **CD EDIT/CHECK** to select side A or B, and press ■**CLEAR** to clear the program on the selected side. Then program tracks again.

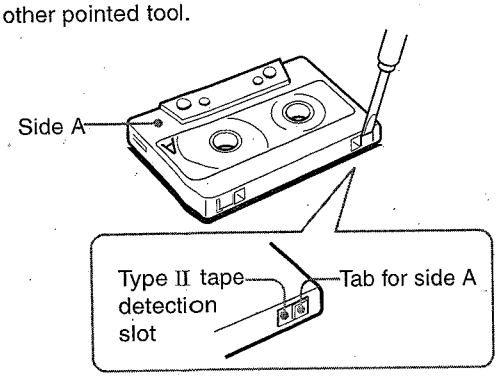
To clear the edit programme
Press ■**CLEAR** twice so that "EDIT" disappears from the display.

NOTE

- Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
- Up to 30 tracks can be programmed from any of the inserted discs.
- "FULL" is displayed if you attempt to programme more than 30 tracks.

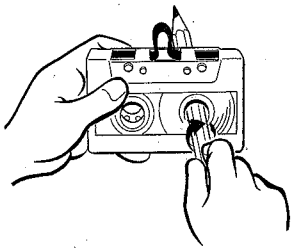
About cassette tapes

- **To prevent accidental erasure**, break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.



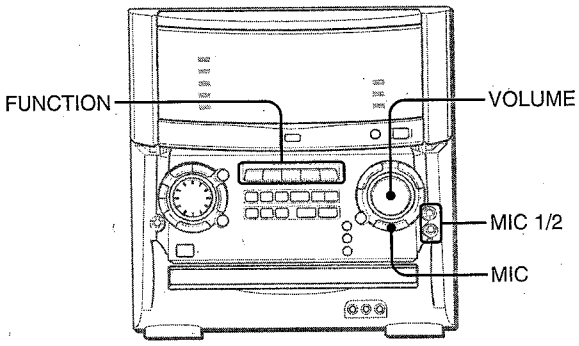
To record on the tape again, cover the tab openings with adhesive tape, etc. (On Type II tapes, take care not to cover the Type II tape detection slot.)

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in** the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



KARAOKE

MICROPHONE MIXING

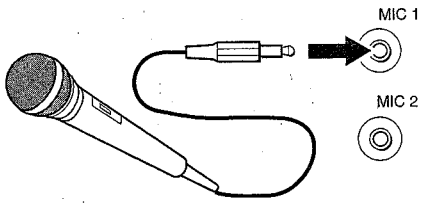


Two microphones (not supplied) can be connected to this unit, allowing you to sing along to music sources.
Use microphones with standard plugs (ø6.3 mm, 1/4 inch).

Before connecting a microphone

Press **MIC** and turn **VOLUME** anti-clockwise until "MIC OFF" is displayed.

1 Connect your microphones to MIC 1 and MIC 2 jacks.



2 Press one of the function buttons to select the source to be mixed, and play the source.

3 Adjust the volume and tone of the source.

4 Press MIC and turn VOLUME within 4 seconds to adjust the microphone volume.

The microphone volume can be selected from 1 to MAX (7) or OFF (cancel).
The volume of both microphones is adjusted simultaneously.

To record microphone sound mixed with source sound

Follow the procedure for recording from the sound source (see page 20).

When the microphones are not in use

Set the microphone volume to OFF and remove the microphones from **MIC** jacks.

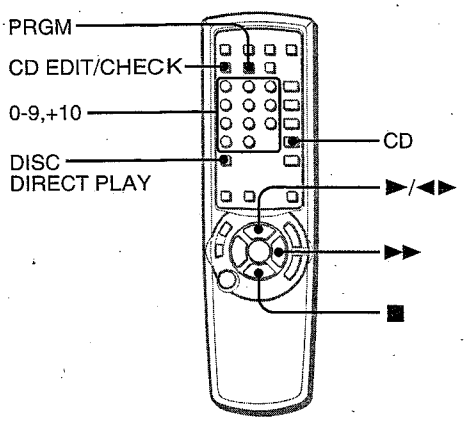
NOTE

- If a microphone is held too near the speakers, a howling sound may be produced. In this case, hold the microphone away from the speakers, or decrease the microphone volume.
- If sound through the microphone is extremely loud, it may be distorted. In this case, decrease the microphone volume.

Recommended microphones

Use of unidirectional type microphones is recommended to prevent howling. Contact your local Aiwa dealer for details.

CD KARAOKE PROGRAM

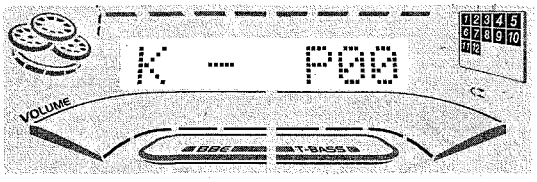


Before or during CD play, you can reserve up to 15 tracks to be played after the current track. Each reservation is cleared when it finishes playing.

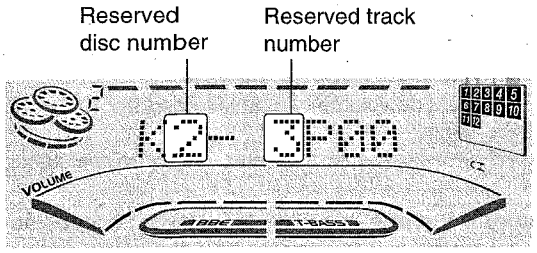
Use the remote control.

1 Press CD and load the discs.

2 Press PRGM once.
After "CD KARAOKE" scrolls on the display, "K-P00" appears.

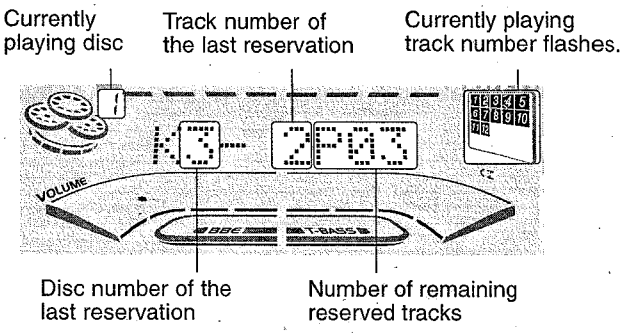


3 Press DISC DIRECT PLAY, then press one of the numbered buttons 1-3 within 3 seconds to select a disc. Then, press the numbered buttons 0-9 and +10 to select a track.



4 Repeat step 3 to reserve other tracks.

5 Press ◄► to start play.
After a track is played, it is cleared from the programme.


Currently playing disc
Track number of the last reservation
Currently playing track number flashes.
K3- 2P03
VOLUME
Disc number of the last reservation
Number of remaining reserved tracks

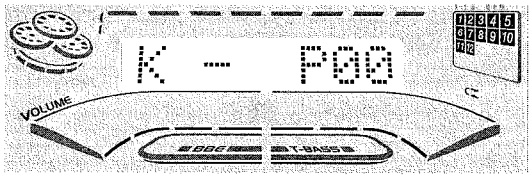
To add a reservation during play
Repeat step 3.

To check the reserved tracks
Press **CD EDIT/CHECK** repeatedly. Each time it is pressed, the disc number and track number are displayed in the reserved order.

To stop play
Press ■. When ◄► is pressed, the play starts from the last track again.

To skip a track
Press ►►.
The skipped track is cleared from the program.

To clear all the reservations
Press ►► repeatedly until "K - P00" is displayed.

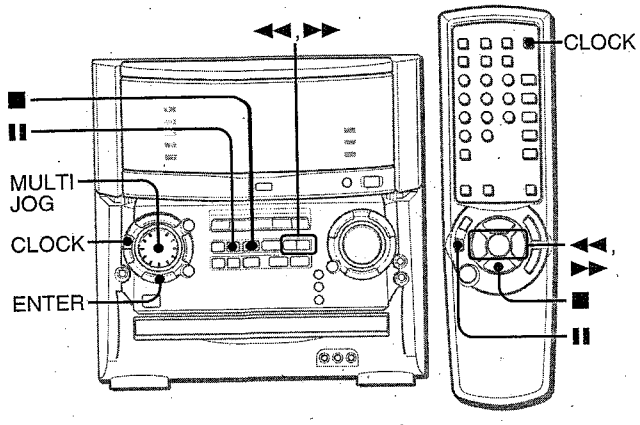


Press it once more to cancel the Karaoke programs. The display returns to that of CD play.

NOTE

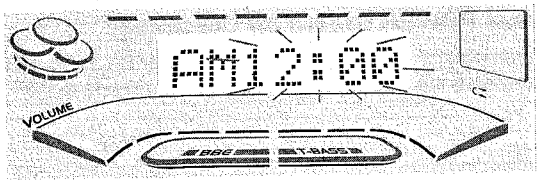
- If the reserved track number does not exist on the selected disc, the unit stops playing and the display flashes. In this case, press ►► to skip the error track. Then press ◄► to start play with the next reserved track.
- When **PRGM** is pressed twice in step 2, "– – 0:00" is displayed and the unit enters CD programmed play mode (page 19). To cancel programmed play, press ■.

SETTING THE CLOCK



When the clock is set, the ":" between the hours and minutes flashes. When the clock setting is canceled due to a power failure, the entire clock display flashes.

1 Press CLOCK.



2 Within 4 seconds, turn MULTI JOG to designate the hour and the minute.

Turning **MULTI JOG** changes both the hour and the minute. ◀◀ or ▶▶ is also available instead of **MULTI JOG**. Holding these buttons down will vary the time rapidly.

3 Press ENTER or II.

The clock starts from 00 seconds.

To view the clock when another display is in the display

Press **CLOCK**. The time is displayed for 4 seconds and then the original display reappears. However, the clock cannot be displayed during recording.

To switch to the 24-hour standard

Press **CLOCK** and then press ■ within 4 seconds.
Repeat the same procedure to restore the 12-hour standard.
In the 12-hour standard, "AM12:00" indicates midnight and "PM12:00" indicates noon.

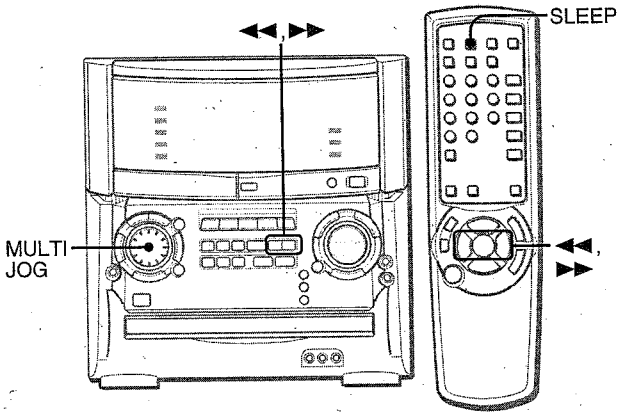
If the clock display flashes

If the display flashes when the clock is displayed, it indicates that the clock has stopped due to a power failure or the removal of the power cord. The current time needs to be reset.

NOTE

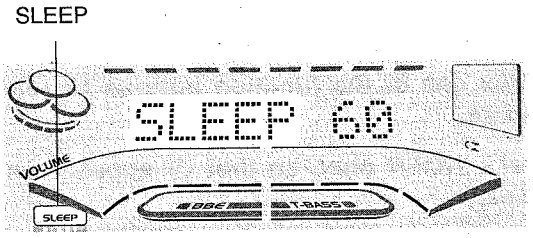
If the power-economizing mode (page 9) is on, the unit blacks out when the power is turned off. To view the clock, press **CLOCK** so that the time is displayed for 4 seconds.

SETTING THE SLEEP TIMER



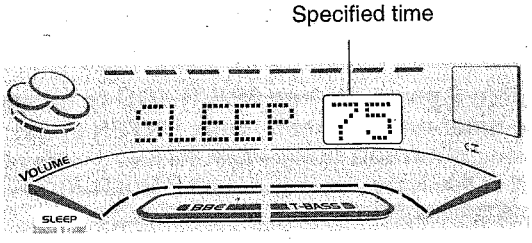
The unit can be turned off automatically at a specified time.

1 Press SLEEP on the remote control.



2 Within 4 seconds, turn MULTI JOG or press ◀◀ or ▶▶ to specify the time until the power is turned off.

The time changes between 5 and 240 minutes in 5-minute steps.



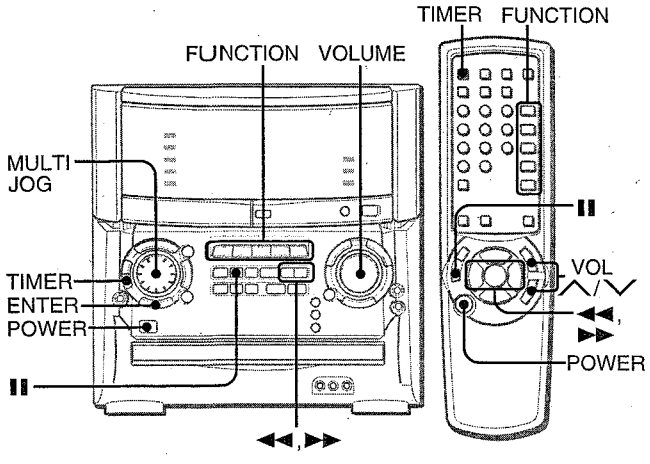
To check the time remaining until the power turns off

Press **SLEEP** once. The remaining time is displayed for 4 seconds.

To cancel the sleep timer

Press **SLEEP** twice so that "SLEEPoFF" appears.

SETTING THE TIMER

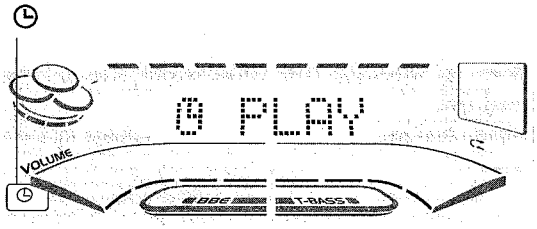


The unit can be turned on at a specified time every day with the built-in timer.

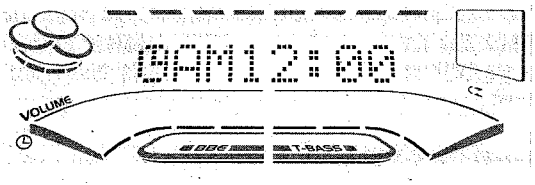
Preparation
Make sure the clock is set correctly.

1 **Press one of the function buttons to select a source.**

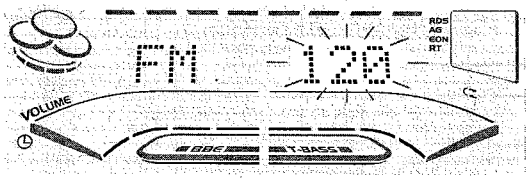
2 **Press TIMER once so that ◷ appears on the display.**
Time and audio source name flash alternately.



3 **<u>Within 6 seconds</u>, turn MULTI JOG to designate the timer-on time, then press ENTER or II.**
Turning **MULTI JOG** changes both the hour and the minute. ◄◄ or ►► is also available instead of **MULTI JOG**. Holding these buttons down will vary the time rapidly.



4 **<u>Within 4 seconds</u>, turn MULTI JOG to select the duration for the timer-activated period.**
The duration can be set between 5 and 240 minutes in 5-minute steps.
◄◄ or ►► is also available instead of **MULTI JOG**.

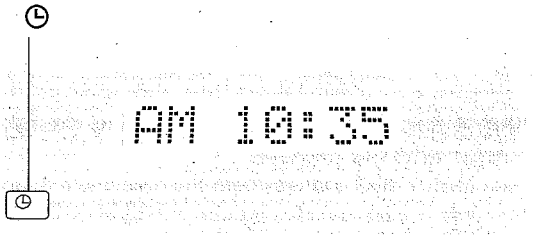


The duration will be automatically set after 4 seconds. It will also be set if **ENTER** or **II** is pressed within 4 seconds after step 4.

5 **Adjust the volume.**
The source sound will play at the volume level set in this step when the power is turned on by the timer.
If the volume level is set to 21 or higher, however, it will automatically be re-set to 20 when the power is turned on.

6 **Prepare the source.**
To listen to a CD, load the disc to be played first on tray 1.
To listen to a tape, insert the tape into the cassette tray.
To listen to the radio, select the band and tune in to a station.

7 **Press POWER to turn off the power.**
◷ remains on the display after the power is turned off (timer standby mode) if the power-economizing mode is OFF.



When the timer-on time is reached, the unit turns on and begins play with the selected source.

To check the timer setting
Press **TIMER**.
The selected source, the timer-on time, and the duration for the timer-activated period will be displayed for 6 seconds.

To change any of the previous settings
Carry out from step 1.
However, if you do not change the timer-on time, in step 3 just press **ENTER** twice and continue from step 4.

To cancel the timer standby mode temporarily
Press **TIMER** repeatedly until ◷ disappears and "OFF" is displayed.
To restore the timer standby mode, press **TIMER** once or twice to display ◷ or ◷REC.

Using the unit while the timer is set
You can use the unit normally after setting the timer.
Before turning off the power, carry out step 5 and 6.

NOTE

- You can change the source that was selected in step 1 by pressing one of the function buttons before pressing **ENTER** or ▮▮ in step 3.
- If the power-economizing mode is ON, ⏲ is not displayed in the timer standby mode.
- Timer playback and timer recording will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.

TIMER RECORDING

Timer recording is applicable for TUNER, VIDEO1/2/3 and AUX/PHONO (with an external timer) sources only.

Press either **TUNER/BAND**, **VIDEO1/2/3** or **AUX/PHONO** to select a source, then **press TIMER repeatedly until ⏲REC appears on the display**. Within 6 seconds, carry out the steps of "SETTING THE TIMER" from step 3 and load the tape to be recorded on into the cassette tray after step 6.

NOTE

- If the timer recording is done with the economizing mode (page 9) set to "ECO ON" or "ECO AUTO" and the power turns off, the dimmer mode will be set to "DIMMER 3" and the volume level will be 0 (minimum) level) the next time the power is turned on.
- You cannot use the timer function to record from a CD.
- You can check the timer setting by pressing **TIMER** even while the power is off. In this case, if you press **ENTER** or ▮▮ within 4 seconds after pressing **TIMER**, you can enter the timer setting mode and change the previous setting.

CARE AND MAINTENANCE

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet

Use a soft dry cloth.
If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

To clean the tape heads

When the tape heads are dirty;
- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

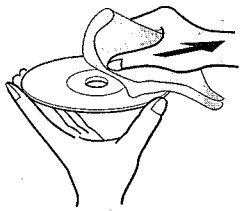
After every 10 hours of use, clean the tape heads with a head cleaning cassette.
Refer to the instructions of the cleaning cassette for details.

To demagnetize the tape heads

The tape heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise.
After every 20 to 30 hours of use, demagnetize the tape heads with a separately sold demagnetizing cassette.
Refer to the instructions of the demagnetizing cassette for details.

Care of discs

- When a disc becomes dirty, wipe the disc from the centre out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes

- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

SPECIFICATIONS

Main unit CX-AN3

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF)
16.8 dBf
Antenna jacks 75 ohms (unbalanced)

MW tuner section

Tuning range 531 kHz to 1602 kHz (9 kHz step)
530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity 350 µV/m
Antenna Loop antenna

LW tuner section

Tuning range 144 kHz to 290 kHz
Usable sensitivity 1400 µV/m
Antenna Loop antenna

Amplifier section

Mid-high frequency amplifier
Power output Front
Rated: 20 W + 20 W
(8 ohms, T.H.D. 1 % 1kHz)
Reference: 25 W + 25 W
(8 ohms, T.H.D. 10 %, 1kHz)
DIN MUSIC POWER: 40 W + 40 W
Total harmonic distortion
0.15 %
(10 W, 1 kHz, 8 ohms, DIN AUDIO/Front)

LOW FREQ amplifier
Power output Rated: 60 W + 60 W
(6 ohms, T.H.D. 1%, 80 Hz)
Reference: 75 W + 75 W
(6 ohms, T.H.D. 10%, 80 Hz)
DIN MUSIC POWER: 120 W + 120 W
Total harmonic distortion
0.15 % (30 W, 80 Hz, 6 ohms, DIN AUDIO/Front)

Inputs AUX: 310 mV
PHONO: 400 mV
VIDEO1, VIDEO2, VIDEO3: 310mV
MIC 1, MIC 2: 1.5 mV (20 kohms)

Outputs CD DIGITAL OUT (OPTICAL)
SPEAKERS:
LOW: 6 ohms
HIGH: 8 ohms
SURROUND SPEAKERS: accept speakers of 8 -16 ohms
PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

Track format 4 tracks, 2 channels stereo
Frequency response Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio 50 dB (CrO_2 tape peak level, above 400 Hz)
Recording system AC bias
Heads Recording/playback head × 1, erase head × 1

Compact disc player section

Laser Semiconductor laser (λ = 780 nm)
D/A converter 1 bit dual
Signal-to-noise ratio 85 dB (1 kHz, 0 dB)
Harmonic distortion 0.03 % (1 kHz, 0 dB)

General

Power requirements 230 V AC, 50 Hz
Power consumption 160 W
Dimensions of main unit
360 × 372 × 423 mm
Weight of main unit 14 kg

Speaker system SX-WAN3

Cabinet type 3 way, built-in subwoofer
Speakers Subwoofer:
220 mm cone type
Woofer:
120mm cone type
Super tweeter:
20 mm cone type
Impedance 6 ohms / 8 ohms
Output sound pressure level
89 dB/W/m
Dimensions (W × H × D)
250 × 535 × 298 mm
Weight 6.5 kg

Specifications and external appearance are subject to change without notice.

COPYRIGHT

Please check the laws on copyright relating to recordings from discs, radio or external tape for the country in which the machine is being used.

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TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.
- Is the AC cord connected properly?
- Is there a bad connection? (→ page 5)
- There may be a short circuit in the speaker jacks.
  → Disconnect the AC cord, then correct the speaker connections.(→ page 5)
- Was an incorrect function button pressed?

Sound is emitted from one speaker only.
- Is the other speaker disconnected?

An erroneous display or a malfunction occurs.
→ Reset the unit as stated below.

The unit blacks out when the power is off.
- Is the power economizing mode set to "ECO ON" or "ECO AUTO"? (→ page 9)

The power is not turned on.
- Disconnect the AC cord, and connect it again in a few seconds.

TUNER SECTION

There is constant, wave-like static.
- Is the antenna connected properly? (→ page 5)
- Is the signal weak?
  → Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.
- Is the system picking up external noise or multipath distortion?
  → Change the orientation of the antenna.
  → Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.
- Is the deck in pause mode? (→ page 16)

The sound is off-balance or not adequately high.
- Is the playback head dirty? (→ page 27)

Recording is not possible.
- Is the erasure prevention tab on the tape broken off? (→ page 23)
- Is the recording head dirty? (→ page 27)

Erasure is not possible.
- Is the erasure head dirty? (→ page 27)
- Is a metal tape being used?

High frequency sound is not emitted.
- Is the playback head dirty? (→ page 27)

CD PLAYER SECTION

The CD player does not play.
- Is the disc correctly placed? (→ page 17)
- Is the disc dirty? (→ page 27)
- Is the lens affected by condensation?
  → Wait approximately one hour and try again.

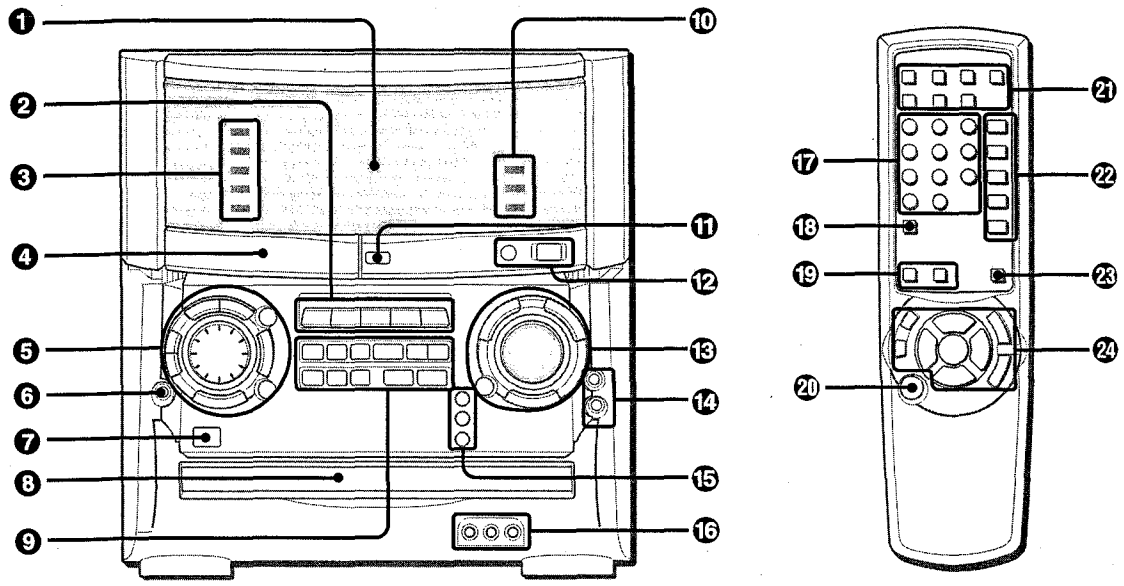
To reset

If an unusual condition occurs in the display window or the cassette decks, reset the unit as follows.

1 Press **POWER** to turn off the power.
2 Press **POWER** to turn the power back on while pressing ■**CLEAR**. Everything stored in memory after purchase is canceled.

If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting the AC cord, and connect it again. Then carry out step 2.

PARTS INDEX/KENNZEICHNUNG DER BEDIENELEMENTE/NOMENCLATURE/INDICE DE LAS PARTES/INDICE DELLE PARTI/ONDERDELEN/OVLÁDACÍ PRVKY/TÁRGYMUTATÓ/INDEKS CZĘŚCI



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Name/Bedienelemet/Nom/ Nombre/Nome/Benaming/ Označení/Név/Nazwa	Page/Seite/Page/ Página/Pagina/Pagina/ Strana/Oldal/Strona
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⓳ T-BASS	10
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◄◄/I◄◄(DOWN)	8,11,12-19,21,22, 25,26
►►/►►I(UP)	8,11,12-17,19,21,22,24-26
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